BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work: Construction of drains and roads in main roads of Nethajinagara in ward no. 07-Byatarayanapura, Kodigehalli Sub Division.

SL	Description of work	No.	Dimensions			Qty	Rate	Unit	Amount
			L	B	D				
1	2	3	4	5	6	7	8	9	10
1	KSRB 2-2.2:Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ORDINARY soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and direction of the Engineer-in-charge. Specification. No.KBS 2.1(b)/2.3.5. (P-5, It. No.2.1) P.I.								
	Basic rate		77.00						
	Add A.W. 8%		6.16						
	Total		83.16						
	3rd main road RCC Drain	2	135.00	0.75	0.90	182.25			
	2nd main road RCC Drain	2	137.00	0.75	0.90	184.95			
	3rd main road	1	25.00	1.50	0.30	11.25			
	2nd main road	1	25.00	2.00	0.30	15.00			
	Culvert	6	5.00	1.80	0.90	48.60			
					Total:-	**420.00**	83.16	Cum	34928.00
2	**KSRB 4-1.3:** Providing and laying in position plain cement concrete of nominal mix 1:4:8 using **40mm** and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)								
	Basic rate		4695.00						
	Add A.W. 8%		375.60						
	Total		5070.60						
	RCC Drain bottom								
	3rd main road RCC Drain	2	135	0.75	0.10	20.25			
	2nd main road RCC Drain	2	137	0.75	0.10	20.55			
	Culvert	6	5	1.8	0.15	8.10			
						48.90	5070.60	Cum	**247952.34**
3	**KSRB4-1.6:** Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic rate		5084.00						
	Add A.W. 8%		406.72						
	Total		5490.72						

	Culvert	6	5	1.8	0.15	8.10			
						8.10	5490.72	Cum	44475.00
3	**KSRB 4.2.2:** Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. **Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)+**									
	Basic rate		5739.00						
	Add A.W. 8%		459.12						
	Total		6198.12						
	CC Drain bottom								
	3rd main road RCC Drain	1	135.00	0.75	0.15	15.19			
	2nd main road RCC Drain	1	137.00	0.75	0.15	15.41			
	CC DRAIN SIDEWALL					0.00			
	3rd main road RCC Drain	2	135.00	0.45	0.15	18.23			
	2nd main road RCC Drain	2	137.00	0.45	0.15	18.50			
						67.32	6198.12	Cum	417258.00
7	**KSRB 4-.9-2:**Providing and fabricating TMT . Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking,placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design(laps and wasteage shall not measured and paid) cost of materials. labour. HOM of machinery complete as per specifications . (Page NO 17, Itm. NO. 4.46.2)								
	Basic rate		59327.91	54933.25					
	Add A.W. 8%		0.00	4394.66					
	Total		59327.91	59327.91					
	Qty @ 60Kg/cum	drain	0.065	X	67.32	4.38			
					Total:-	**4.38**	59327.91	tonne	259608.00
8	**KSRB 4-6.4:** Providing and removing centering, shuttering strutting, propping etc., and removal of form work for **vertical surface** such as walls at any thickness including attached pilasters, buttressed, plinth and string courses cost of all materials, labour complete as per specifications (Page no.14, Item No. 4.31)								
	Basic Rate		**284.00**						

	Area Weightage 8%		22.72						
	total		**306.72**						
	CC DRAIN SIDEWALL								
	3rd main road RCC Drain	4	135.00		0.45	243.00			
	2nd main road RCC Drain	4	137.00		0.45	246.60			
						489.60	306.72	Sqm	150170.11
4	**KSRB 5.3-1:**Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								
	Basic rate		3200.00						
	Add A.W. 8%		256.00						
	Total		3456.00						
	culvert	12	5	0.45	0.60	16.20			
		6X2				**16.20**	3456.00	Cum	55988.00
5	**KSRB 5.3-1:**Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic rate		**33.00**						
	Add A.W. 8%		2.64						
	Total		**35.64**						461.9
		6	1.8		0.60	6.48			
						6.48	35.64	Sqm	231.00
8	Providing and fixing 10cms thick pre cast **RCC covering slab** using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications **(Data Rate Approved)**					129.6			
	Data Rate		**1836.00**						
	3rd main road RCC Drain	2	30.00	0.9		54.00			
	2nd main road RCC Drain	2	47.00	0.9		84.60			
					Total	**138.60**	1836.00	Sqm	254470.00
9	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Basic rate	=	5111.00						
	Add A.W. 8%	=	0.00						

	Total	=	5111.00						
	Culvert slabs	43	1.80	0.60		46.44			
					Total:-	**46.44**	5111.00	Cum	237355.00
9	KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)								
	Basic rate		1587.00						
	Add A.W. 8%		126.96						
	Total		1713.96						
	3rd main road	1	25.00	1.50	0.150	5.63			
	2nd main road	1	25.00	2.00	0.150	7.50			
					Total:-	**13.13**	1713.96	Cum	22496.00
9	KSRRB 500-07: Providing and applying tack coat with80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials , labour HOM Machineries complete as per specifications.. (Pg No. 160. Item No. 21.7)								
	Basic rate		11.00						
	Add A.W. 8%		0.88						
	Total		11.88						
	3rd main road	1	135.00	5.00		675.00			
	2nd main road	1	137.00	4.00		548.00			
					Total:-	**1223.00**	11.88	Sqm	14530.00
9	**KSRRB 500-18**: Providing and laying semi dense bituminous concrete using crushed aggragates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work to site,laying with a hydrostatic paver with paver finisher to the required grade, level and alignment rolling with smooth wheeled, vibratory and tandem rolleres to achieve the desired compaction as per MORTH Specification clause No. 500.8 complete in all respects as per specifications.-25-30mm compacted thickness with 5% bitumen 80/100 grade (grading II).**(P178, It No: 21.20.6)**								
	Basic rate		6062.00						
	Add A.W. 8%		484.96						
	Total		6546.96						
	3rd main road	1	135.00	5.00	0.025	16.88			
	2nd main road	1	137.00	4.00	0.025	13.70			
					Total:-	**30.58**	6546.96	Sqm	200174.00

15	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Qty vide item no.1					420.00	94.82	Cum	39825.00
	Basic rate	=	62.20						
	Conveying charges for 10Kms								
	Rs. 2.00 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.00X1.28TonneX10Km	=	25.60						
	Total	=	87.80						
	Add Area Weightage 8%	=	7.02						
			94.82						
	Sub total								1979460.45
	Add 1% third party inspection charges								19794.60
	Miscellaneous and rounding off							513.94	744.94
							Total:-		**2000000.00**

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2015-16 year of PWD Bangalore Circle.

3)The Provisions made in estimate are adequate and necessary.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

Administrative Approved
Accorded For 20.00 lakh Rs.
Head of A/C P-1771
CER NO : 68 Dt: 3/12/16

TA

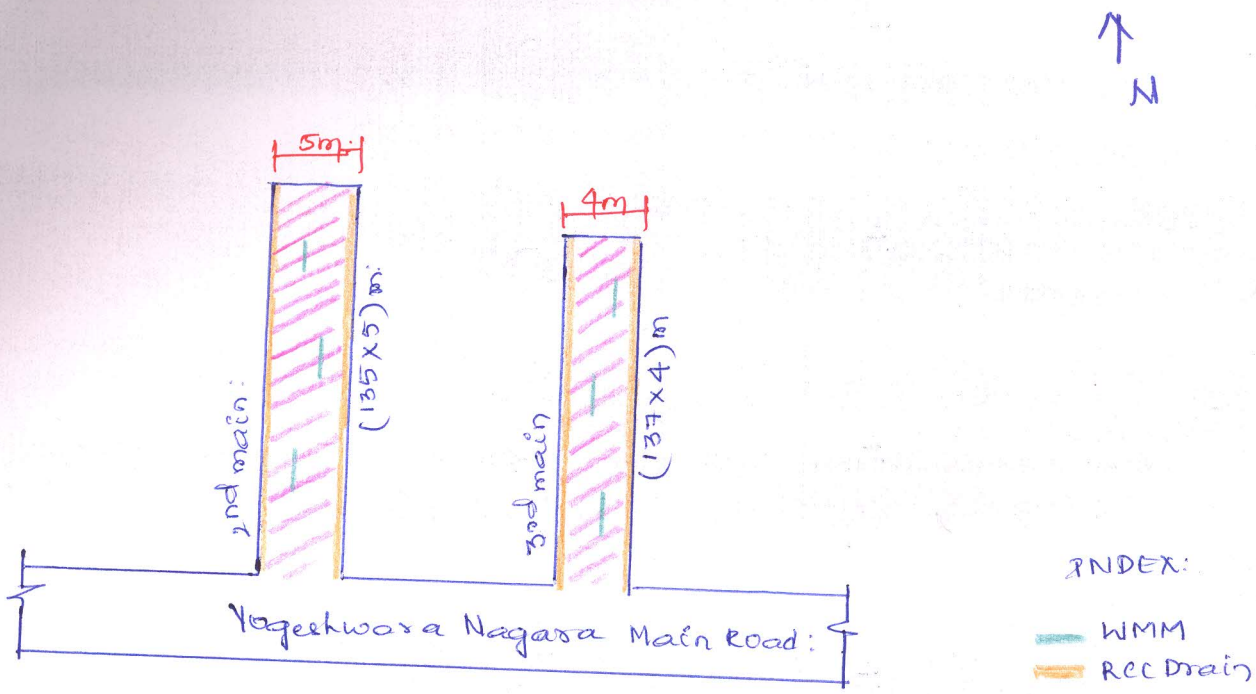
CE (TYNK)

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-1771
Div. Ref. No. 100/16-17 Dt. 6/01/17

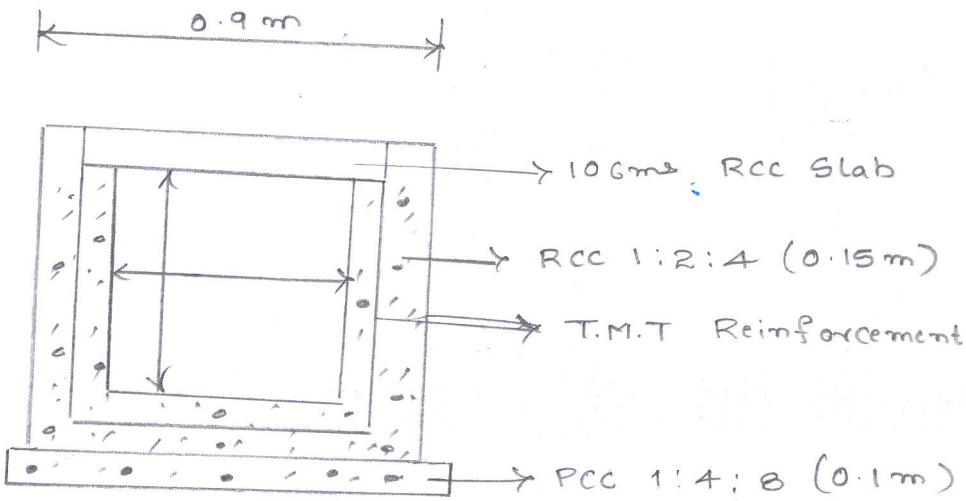
SE

EE(BTP) 6/01

lame of work: Constructions of drains and roads in main roads of Nethajinagara in ward no.07, yatarayanapura



NETHAJI NAGARA LAYOUT



Cross Section

AE(WS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pa
Bangalore - 560 092